

## CLAIMS

I claim:

1. An improved decoding and processing system for advanced determination and display of geographic information of a call origination party, said system comprising:
  - a) a mobile switching center having means for receiving a CND message from a call origination party, said message containing call identification data from a signal derived from communication network;
  - b) server means for storage and retrieval of specific data from a data base library for selectively determining the corresponding geographic information of said CND message received from the call origination party;
  - c) means for wireless transmission of said corresponding geographic information for reception by a mobile handset; and
  - d) a readout device for displaying the geographic information of the call origination party.

- 2.The improved system of Claim 1 wherein the corresponding geographic information is a city identification of the call origination party.
- 3.The improved system of Claim 1 wherein the corresponding geographic information in a state identification of the call origination party.
- 4.The improved system of Claim 1 wherein the corresponding geographic information in a country identification of the call origination party.
- 5.The improved system of Claim 1 wherein the corresponding geographic information in a province identification of the call origination party.
- 6.The improved system of Claim 1 wherein the corresponding geographic information is displayed pictorially.
- 7.The improved system of Claim 1 wherein the communication network is PSTN.
- 8.The improved system of Claim 1 wherein the communication network is an intra-network.
- 9.The improved system of Claim 1 wherein said storage and

retrieval means includes capability to automatically update the data base library of the storage and retrieval device as new area codes and/or local exchanges are subsequently assigned.

10.The improved system of claim 1 wherein the standard data field is a data field for a dialed number.

11.The improved system of claim 1 wherein the call data character stream replaces the contents of the standard data field.

12.The improved system of claim 1 wherein the call data character stream references information stored in a database.

13.The improved system of claim 1 wherein the call data character stream is used to process the voice path of the telephone call.